

What is claimed is:

1. A wireless communication system including a terminal device that transmits a wireless signal and an electronic device that receives the wireless signal transmitted by said terminal device,

said terminal device comprising:

an encrypting system that encrypts data to be transmitted;

a first communication system that transmits deciphering data to said electronic device with a wireless signal having a directivity; and

a second communication system that transmits the encrypted data to said electronic device with a wireless signal which does not have the directivity,

said electronic device comprising:

a third communication system that receives the wireless signal transmitted by said transmitting system of said terminal device; and

a decoding system that decodes the encrypted data that is received through said third communication system using the deciphering data that is received through said third communication system.

2. The wireless communication system according to claim 1,

wherein said first communication system is provided with a directional antenna, and

wherein said second communication system is provided with an omnidirectional antenna.

3. The wireless communication system according to claim 1, wherein a communication between said first communication system and said third communication system and a communication between said second communication system and said third communication system are performed in accordance with the same communication protocol.

4. The wireless communication system according to claim 3, wherein the same communication protocol is a protocol according to a wireless LAN.

5. The wireless communication system according to claim 3, wherein the same communication protocol is a protocol according to a Bluetooth® technology.

6. The wireless communication system according to claim 1, wherein the ciphering data is identical to the deciphering data.

7. The wireless communication system according to claim 1, wherein said third communication system does not have the

directivity.

8. The wireless communication system according to claim 1, which employs a protocol according to a wireless LAN.

9. The wireless communication system according to claim 1, which employs a protocol according to a Bluetooth® technology.

10. The wireless communication system according to claim 1, which employs a common key encrypting method.

11. A wireless communication system including a terminal device that transmits a wireless signal and an electronic device that receives the wireless signal transmitted by said terminal device,

said electronic device comprising:

a first communication system that transmits ciphering data to be used for encrypting data to said terminal device with a wireless signal having a directivity;

a second communication system that receives encrypted data to be processed, said second communication system does not have directivity; and

a decoding system that decodes the encrypted data received through said second communication system using the deciphering data corresponding to the ciphering data

transmitted by said first communication system, and

said terminal device comprising:

a third communication system that is capable of receiving the ciphering data transmitted by said first communication system and transmitting data to said second communication system; and

an encrypting system that encrypts data to be processed using the ciphering data received through said third communication system, the encrypted data being transmitted to said second communication system through said third communication system.

12. The wireless communication system according to claim 11, wherein said first communication system is provided with a directional antenna, and

wherein said second communication system is provided with an omnidirectional antenna.

13. The wireless communication system according to claim 11, wherein a communication between said first communication system and said third communication system and a communication between said second communication system and said third communication system are performed in accordance with the same communication protocol.

14. The wireless communication system according to claim 13, wherein the same communication protocol is a protocol according to a wireless LAN.

15. The wireless communication system according to claim 13, wherein the same communication protocol is a protocol according to a Bluetooth® technology.

16. The wireless communication system according to claim 11, wherein the ciphering data is identical to the deciphering data.

17. The wireless communication system according to claim 11, wherein said third communication system does not have the directivity.

18. The wireless communication system according to claim 11, which employs a protocol according to a wireless LAN.

19. The wireless communication system according to claim 11, which employs a protocol according to a Bluetooth® technology.

20. The wireless communication system according to claim 11, which employs a common key encrypting method.

21. A terminal device for a wireless communication system

including said terminal device and an electronic device, said terminal device comprising:

an encrypting system that encrypts data to be transmitted to said electronic device;

a first communication system that transmits deciphering data to the electronic device with a wireless signal having a directivity; and

a second communication system that transmits the encrypted data to the electronic device with a wireless signal which does not have the directivity, the encrypted data being decodable using the deciphering data transmitted by said first communication system.

22. The terminal device according to claim 21,

wherein said first communication system is provided with a directional antenna, and

wherein said second communication system is provided with an omnidirectional antenna.

23. The terminal device according to claim 21, wherein the ciphering data is identical to the deciphering data.

24. The terminal device according to claim 21, wherein each of the first communication system and the second communication system employs a protocol according to a wireless LAN.

25. The terminal device according to claim 21, wherein each of the first communication system and the second communication system employs a protocol according to a Bluetooth® technology.

26. An electronic device for a wireless communication system including a terminal device and said electronic device, said electronic device comprising:

a first communication system that transmits ciphering data to be used for encrypting data to the terminal device with a wireless signal having a directivity;

a second communication system that receives data to be processed from the terminal device, said second communication system does not have directivity, the data transmitted from the terminal device being encrypted using the ciphering data transmitted by said first communication system; and

a decoding system that decodes the encrypted data received through said second communication system using the deciphering data corresponding to the ciphering data transmitted by said first communication system.

27. The electronic device according to claim 26,  
wherein said first communication system is provided with a directional antenna, and

wherein said second communication system is provided with

an omnidirectional antenna.

28. The electronic device according to claim 26, wherein the ciphering data is identical to the deciphering data.

29. The electronic device according to claim 26, wherein each of the first communication system and the second communication system employs a protocol according to a wireless LAN.

30. The electronic device according to claim 26, wherein each of the first communication system and the second communication system employs a protocol according to a Bluetooth® technology.

31. A computer program product for controlling a terminal device for a wireless communication system including the terminal device and an electronic device, the computer program product controlling the terminal device to include functions of:

an encrypting system that encrypts data to be transmitted to the electronic device;

a first communication system that transmits deciphering data to the electronic device with a wireless signal having a directivity; and

a second communication system that transmits the encrypted data to the electronic device with a wireless signal



which does not have the directivity, the encrypted data being decodable using the deciphering data transmitted by the first communication system.

32. A computer program product for controlling an electronic device for a wireless communication system including a terminal device and the electronic device, the computer program product controlling the electronic device to include functions of:

a first communication system that transmits ciphering data to be used for encrypting data to the terminal device with a wireless signal having a directivity;

a second communication system that receives data to be processed from the terminal device, the second communication system does not have directivity, the data transmitted from the terminal device being encrypted using the ciphering data transmitted by the first communication system; and

a decoding system that decodes the encrypted data received through the second communication system using the deciphering data corresponding to the ciphering data transmitted by the first communication system.